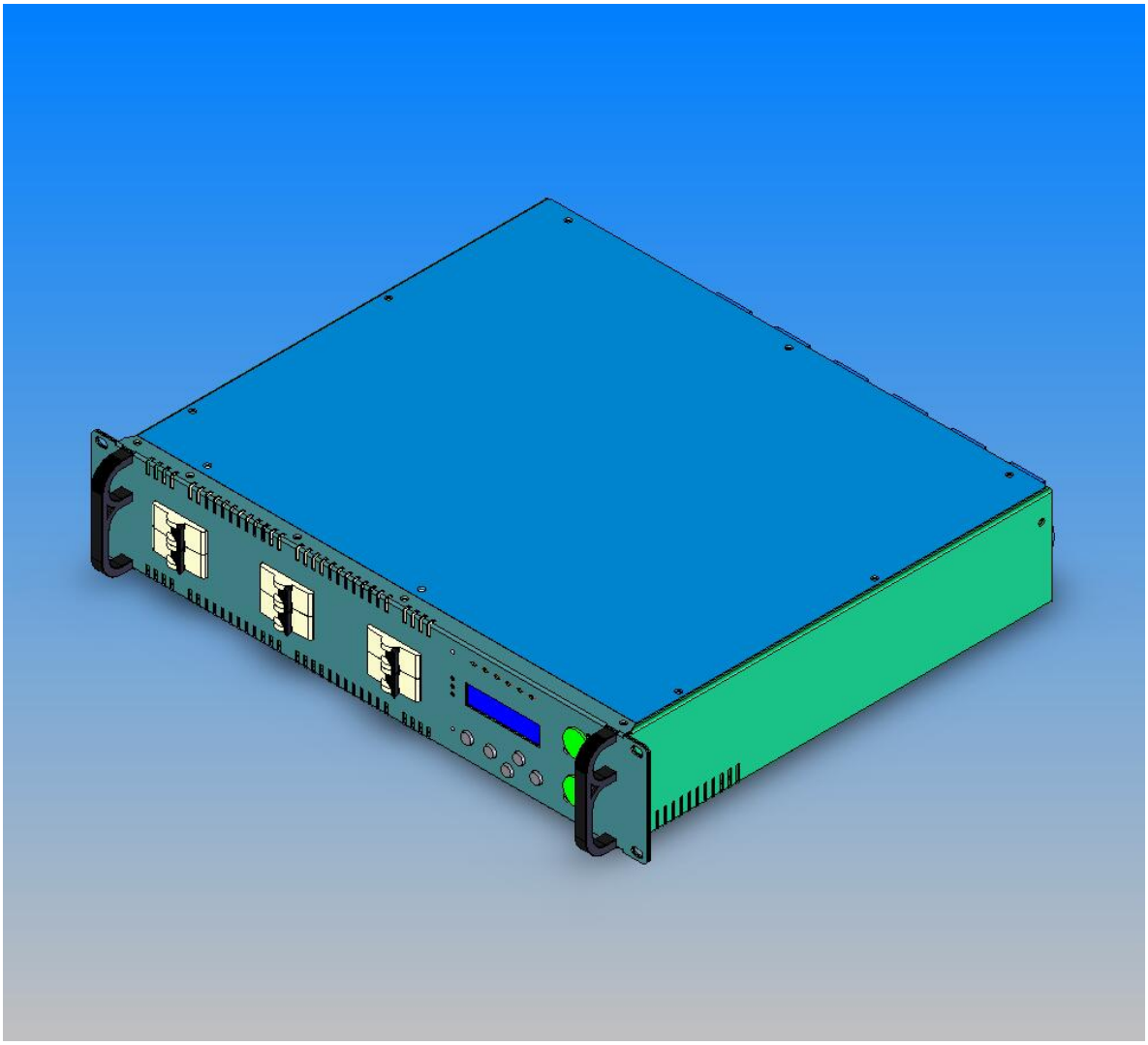
stairville

D 610s

6 Channel Digital Dimmer Pack

user's manual



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1 Introduction

1-1 Features of D610s

- Digital signal interface DMX512 (1990)
- Each Channel have it's own DMX address
- Individual preheat on every Channel (0-15%)
- Individual control curve on every Channel (Switch/Linear/Sqrt)
- Reglable voltage limit for every Channel
- Auto frequency tracking 45-65 Hz
- Test mode
- Overheat protection
- LCD Display
- Internal Temperature displaying
- Variable fan speed corresponding to internal temperature

1 Introduction

1-2 General Instructions

Thank you for your purchasing this product.

Please read through this operating instructions before installing or using your new product!

WARNING!

! This product must be earthed!

! After unpacking, check for any obvious transit damage. If damage is apparent, return the unit to the place of purchase!

! Do not make any inflammable liquids, water or metal objects enter the unit!

! No user serviceable parts inside, do not attempt repairs, please contact your local dealer!

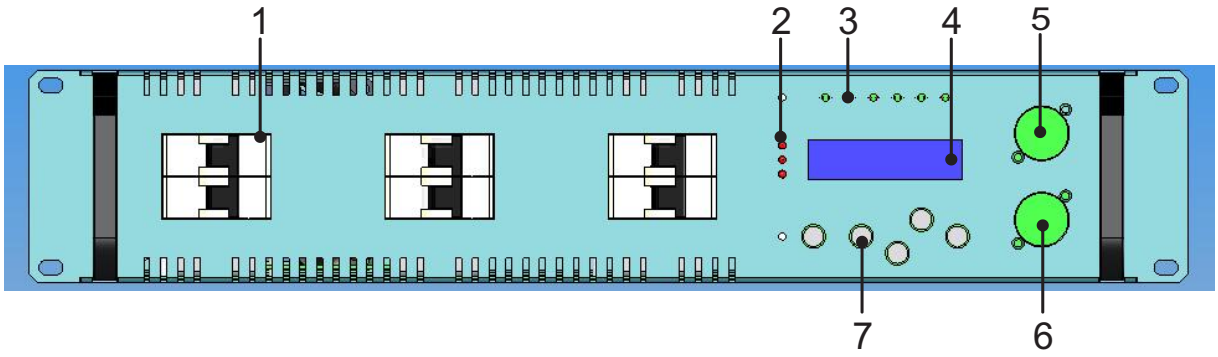
! To prevent fire or shock hazard, do not expose this product under high temperature or moisture area!

CAUTION!

- This product is intended for indoor use only.
- Disconnect the power when not use for extended period.
- Do not dismantle or modify the unit.
- Do not use the unit in places subject to excessive humidity, vibration or bumps.
- During use do not cover and ensure adequate ventilation.

2 Instalation

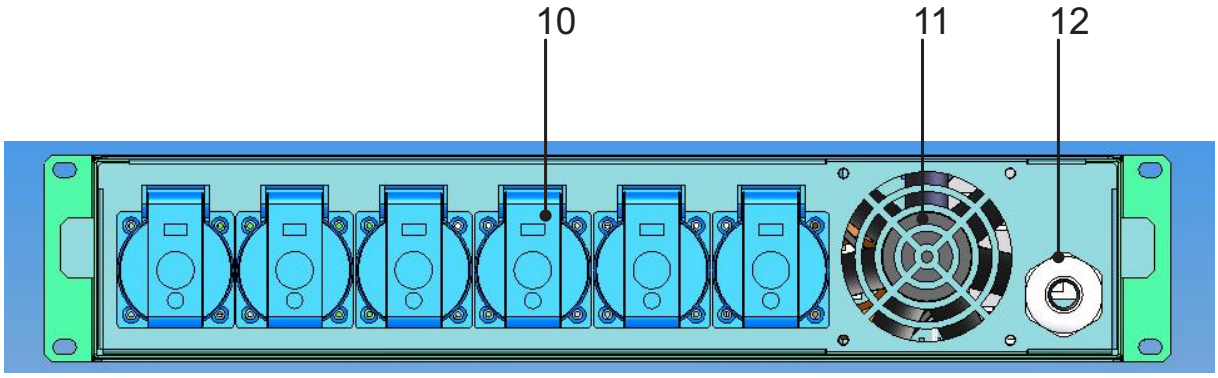
2-1 FrontPanel



(1) Circuit Breaker
(2) Phase LED indicator
(3) Channel LED indicator
(4) LCD Display

(5) DMX Signal output
(6) DMX Signal input
(7) Control Keys

2-2 Rear Panel



(10) AC Power Outputs
(11) Cooling Fan
(12) Main AC Power Input

2 Instalation

2-3 Power Up

! All indications that follows refers to the front panel and back panel from previous page.

Plug the 6 lamps into the Harting Plug (10) as is shown on the back panel. Insert the DMX cable in the corresponding Inputs (6). Unwrap the power cord (12) and plug into a 3x230V Socket capable of delivering 32A per phase. D610s have three section (phases) named

L1, L2, L3. They can be powered in several modes:

- each section powered by his individual Phase;
- one section powered by one Phase and the other two powered by another Phase;
- all sections powered by a single Phase.

Note! *It is recommended to power up all three phases (do not leave any dimmer section unpowered even you don't use it).*

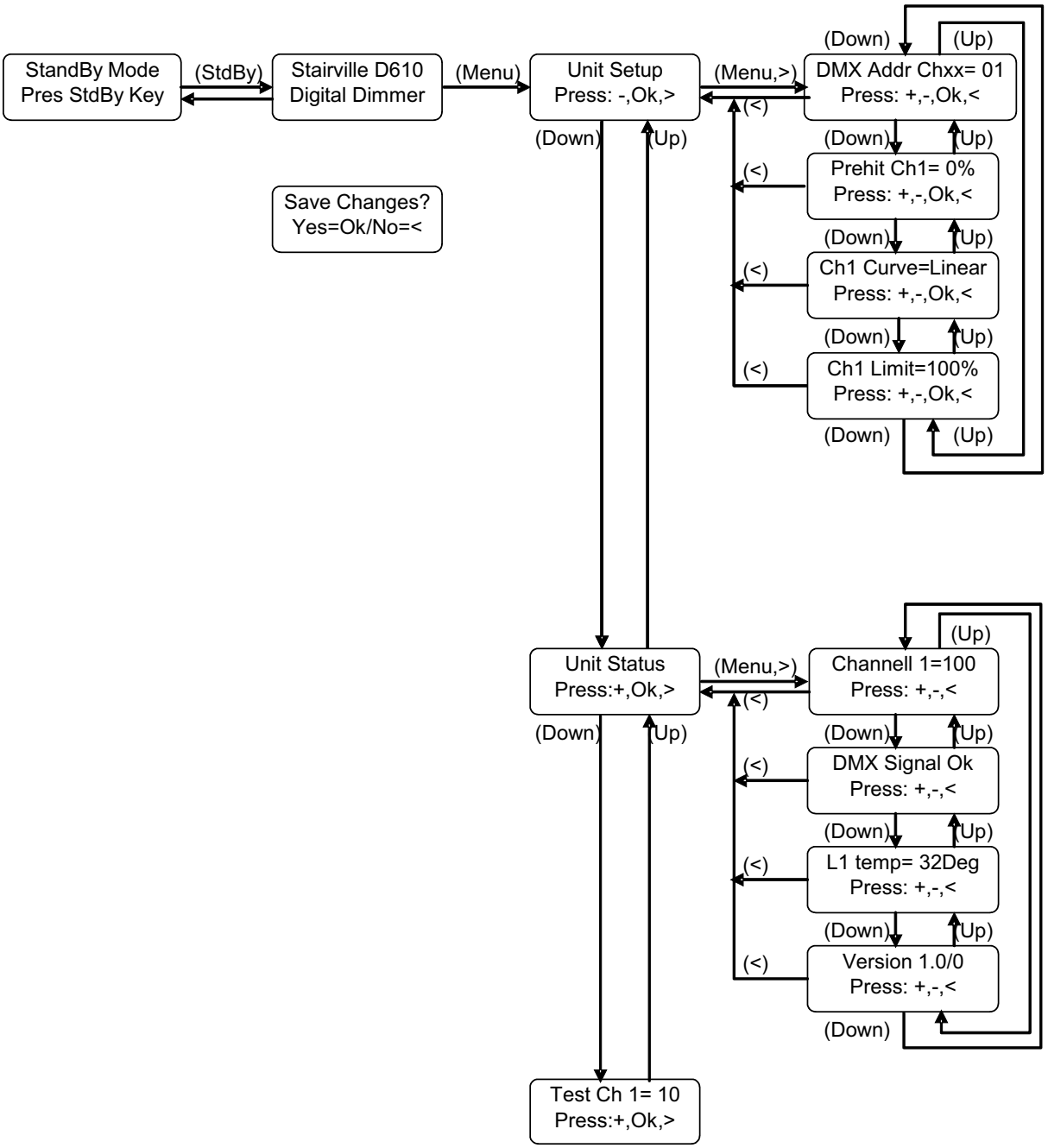
Once you have powered the unit the Phase indicator LED's will light and the LCD will display after a second : "STAIRVILLE D610s / DIGITAL DIMMER". This mean that D610s is ready to be used. The Green LED's from front panel will show the intensity for channels.

Turn on the Circuit Breakers (1) for the channels you want to use and the lamps will light.

Note! *It is recommended to Set Up the unit (see next pages) before you turn on the Circuit Breakers (1).*

3 Unit Setup

3-1 Menu



3 Unit Setup

3-2 Preheat setup

D610s have individual channel preheat value which can be set in this way: Enter "Unit Setup"->"Preheat Ch1= 0" and press (Menu) key.

The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>), remember that you can toggle between channel no and channel value using (<) and (>) keys. The preheat value for selected channel will blink. Change the settings pressing (Up) / (Down) keys. If you want to change another channel preheat value press (<) key and change the channel number. When you have set all preheats to desired values press (Menu) and the "Save Changes?" view will appear on LCD. To save changes press (Menu) key, to quit without save the changes press (<) key.

Note! *The max preheat value is 50, and in the On/Off mode the preheat is shut off.*

3-3 DMX Address setup

D610s have individual channel DMX address. To set these addresses enter "Unit Setup"->"Ch 1 DMX Addr= 01" and press (Menu) key. The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>). Change the settings pressing (Up) / (Down) keys. If you want to change another channel address value press (<) key and change the channel number.. .Press (Menu) key and the "Save Changes" view will appear on LCD. To save changes press (Menu) key, to quit without save the changes press (<) key.

Note! *Changing the the DMX address for Ch1 will modify all addresses . If you want to modify the address for each channel first set Ch1 address and after that set the others addresses!*

3 Unit Setup

3-4 Control curve setup

D610s have 5 control curves for each channel:

- Linear / Sqrt / Curve1 (dimmer mode)
- On/Off (switch mode)-The channel will be On (Full) when his value pass over 64, and the channel will be turned Off when his value pass under 32.

Note! *The individual channel settings must be set before turning on the circuit breaker. Some non-dimming lamps may be damaged if they are used in dimmer mode.*

To select the control curve Enter Unit Setup->Ch Curve and press (Menu) key. The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>), the curve for selected channel will blink. Change the settings pressing (Up) / (Down) keys. If you want to change another channel preheat value press (<) key and change the channel number. When you have set all channel curves press (Menu) and the "Save Changes?" view will appear on LCD. To save changes press (Menu) key, to quit without save the changes press (<) key.

3-5 Test mode

You can test channels (set individual channel value) using Test Mode.

Enter "Test Ch 1= 0" and press (Menu) key. The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>), remember that you can toggle between channel no and channel value using (<) and (>) keys. The channel value will start to blink. Change the settings pressing (Up) / (Down) keys. If you want to change another channel value press (<) key and change the channel number.

When you want to exit press (Menu) and the "Save Changes?" view will appear on LCD. To save changes press (Menu) key, to quit without save the changes press (<) key.

3 Unit Setup

3-6 Limiter setup

D610s have individual voltage channel limit value for prolonging bulb life which can be set in this way:

Enter "Unit Setup"->"Limit Ch1=255" and press (Menu) key.

The channel number will start to blink. Select the desired channel pressing (Up) / (Down) keys and then press (>), remember that you can toggle between channel no and channel value using (<) and (>) keys. The Limiter value for selected channel will blink. Change the settings pressing (Up) / (Down) keys. If you want to change another channel Limitter value press (<) key and change the channel number. When you have set all Limits to desired values press (Menu) and the "Save Changes?" view will appear on LCD. To save changes press (Menu) key, to quit without save the changes press (<) key.

Note! *The min limiter value is 200 and in the On/Off mode the Limiter is shut off.*

4 Unit Status

4-1 Display channels values

You can see value of each change of D610s entering "Unit Status"-> "Channel 1= 68" and press (Menu) key. The channel number will start to blink. To change current channel press (Up) or (Down) keys. To leave this menu press (Menu)

4-2 DMX status

You can check DMX status entering "Unit Status"->"DMX Signal"
If the DMX reception is OK the LCD will display "DMX signal OK" if it is something wrong with DMX signal the LCD will display" No DMX signal"

Note! *Changing the status of DMX reception will be displayed blinking for 3 seconds (e.g. when you turn on /off the DMX console).*

4-3 Displaying unit temperature

You can view the D610s internal temperature entering "Unit Status"->"Unit Temp=34Deg". When the temperature exceeds 40 deg. the cooling fan will start. The fan speed will increase with internal temperature until 64 deg. when the fan speed will be max. If the internal temperature reach 95 deg D610s enter in overheat protection until the temperature go under 80 deg. In this situation the channels will be shouted down and the LCD will display blinking "Unit Overheated / Unit temp=95 deg" .

Note! *To avoid overheat do not cover the cooling fan and ensure adequate ventilation!*

Technical Specification

AC INPUT	230V AC, 50-60Hz 1, 2 or 3 Phases Max 32A / Phase
LOAD	10A / Channel
Output Conector	6 x Shucko 16A
DMX Signal	DMX 512 / 1990
DMX conectors	Input XLR 3-pin Male Output XLR 3-pin Female
Dimension:	19" 2U 483(L) x 88(H) x 430(D)
Weight	10.8Kg